

ABSTRACT

In conventional portable optical blood sugar meters, a lancet device and a sensor device are carried in a state of being separate from each other or in a state of being combined without being changed in size and, therefore, a small amount of blood does not spread over the entire area of a dropwise-application portion when the blood is applied dropwise to the application portion. When an optical measurement is made in such a state, optical information even on a portion where no change in coloration has occurred is also measured, resulting in generation of measurement noise.

A casing 8, a light source 6 which emits light, a photodetector 10 which detects light and a lancet drive mechanism 1, 2, 3, or 4 which drives a detachably attached lancet needle 5 are provided. The lancet needle 5 moves in and out of an opening 9 provided at the extreme tip of the casing 8. Light emitted from the light source 6 is emitted from the opening 9, and light entering the opening 9 reaches the detector 10.